

ABSTRACT

The present invention provides a motor drive apparatus and an electric power steering apparatus using the same, in which the motor can be vector controlled even if a motor position detection sensor such as a hole sensor which cannot output a precise and detailed rotation angle signal when the motor rotates at low speed, field weakening control can reliably be carried out even if there exists detection error of a motor position detection sensor or the like, and motor output having small torque ripple can be expected.